SURVEY ON ETHNOMEDICINAL PLANTS OF DISTRICT VAISHALI, BIHAR

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Abstract: A survey in Vaishali District has been done for documented ethnomedicinal plants. About 71 plants have reported in this manuscript which is used for various diseases. This manuscript is very useful for those who work with herbal plants.

Keywords: Vaishali, Ethnomedicinal, Ethnobotanical, Plants.

Introduction

India is a veritable emporium of medicinal and aromatic plants. It has been estimated that out of 15,000 higher plants occurring in India. 9,000 are commonly used, of which 7,500 are medicinal, 3,900 are culturally important, 525 are used for fiber, 400 are for fodder, 300 for pesticide and insecticide, 300 for gum and resin, and 100 for incense and perfumes. In terms of the plant materials used for traditional medicine, it is estimated that local communities have used over 7,500 plant species. Indian floras have innumerable medicinal plants, which are collected from the forest by the tribal villagers. Many of them are being exported to the developed countries. Since ancient times, humankind depended mainly on the plant kingdom to meet its need for medicine, fragrance and flavors. The Indian subcontinent is blessed with most varied and diverse soils and climatic conditions, which are suitable for the growth of almost every plant species. Usage of plants in medicine had been a long practice by man since ancient times. This practice of using plants in medicine is still prevailing among not only the tribal but also others living in the rural areas. District of Bihar carried out the survey in remote villages of District Vaishali to identify the common and cultivated medicinal plants and their utilization. The study area selected in Vaishali lies between 25° and 30° North latitude and 84° to 85° East longitude. The district is bonded by the district Muzaffarpur in the north, district Samastipur in the east and by river Ganga in south and river Gandak in west. The climate of Vaishali is characterized by hot summer, pleasant winter and general dryness except during rainy season. The district is spread over 2036sq km area.

Materials and Methods

During the course of exploration and collection, 51 villages of district Vaishali Were surveyed by conducting interviews with local traditional healers who prescribe their herbal Formulations and various Ethnobotanical aspects i.e. utilization, domestication, conservation and worship practices. The collected plant specimens were deposited in the University Department of Botany B.R.A.B.U. Muzaffarpur. Botanical names are arranged

alphabetically followed by serial number, Botanical names, local names, family, plant part used and medicinal uses are listed in below.

S. No.	Botanical Name	Local Name	Family	Plant parts	Medicinal uses
1.	Acacia arabica Willd.	Babul	Mimosaceae	All five parts	Weakness
2.	Acacia catechu Willd.	Kattha	Mimosaceae	Leaves	Wounds,
3.	Achyranthes aspera L.	Latzeera	Amaranthaceae	Leaves	Bleeding Dysentery, Fever, For Easy
4.	Aegle marmelos L.	Bel	Rutaceae	Stem, fruit	Delivery To Keep Evil Spirit Away
5.	Allium cepa	Руај	Liliaceae	Fruit	Sunstroke, Blood Purifier
6.	Allium sativum	Lam.Lahsun	Liliaceae	Leaves, buds	Acidity
7.	Argemone mexicana L.	Pili Kateli	Papaveraceae	Juice	Wounds
8.	Azadirachta indica	Neem	Meliaceae	Leaves, stem	Skin Diseases, Tooth Problem
9.	Bacopa monnieri Linn.	Brahmi	Scrophulariaceae	Whole plant	Cure Cough, Memory
10.	Bauhinia purpurea Linn.	Kachnar	Caesalpiniaceae	Fruit	Cure Lymph Gland
11.	Boerhavia diffusa L.	Satha	Nyctaginaceae	Root, Short	Sightness
12.	Brassica campestris L.	Sarson	Brassicaceae	Seed	Suffering From Evil Eyes
13.	Calotropis gigantean L.	Madar	Asclepiadaceae	Leaves	Easy Delivery
14.	Calotropis procera (ait) r. br	Aak	Asclepiadaceae	Latex	Reduce Toothache
15.	Cannabis sativa Linn.	Bhang	Cannabaceae	Seeds	Cough
16.	Cassia fistula Linn.	Amaltas	Caesalpiniaceae	fruit	Skin Diseases,Fever
17.	Cassia occidentalis Linn.	Karonda	Caesalpiniaceae	Leaves	Tonsils Treatment
18.	Cassia tora Linn.	Pawar	Caesalpiniaceae	Seeds	Cough
19.	Catharanthu sroseus (L.) G.Don	Sadhabahar	Apocynaceae	Leaves	Dysentery
20.	Centella asiatica L. (Urb.)	Bramhi	Apiaceae	Stem, Leaves	Memory, Bronchitis, Rheumatic
21.	Citrus limon (christm)	Nimboo	Rutaceae	Fruit	Acidity Sunstroke
22.	Cleome viscosa L.	Bhera	Capparidaceae	Leaf	Dyspepsia, Jaundice
23.	Crotalariaburhia (Buch)	Bhuisan	Fabaceae	Leaf	juiceTo Remove Kidney Stones
24.	Coriandrum sativum L.	Dhania	Apiaceae	Fruit, Leaves	Diarrhoea
25.	Coccinia grandis (L)	Tonglia	Cucurbitaceae	Leaves	To Reduce Acidity, To Cure Piles
26.	Cocculus hirsutus (L)	Vasan	Menispermaceae	Leaves	Jaundice
27.	Cuscuta reflexa Lam	Amerbel	Cuscutaceae	Stem	To Remove Dandruff
28.	Cynodondactylon (L)	Doob	Poaceae	Leaves	Blood Clotting
29.	Datura metel L.	Kaladatura	Solanaceae	Seeds	Abortion
30.	.Emblica officinalis Gaertn.	Ambla	Euphorbiaceae	Fruit	Short-Sightness

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31.	Erythrina variegata L.	Pangara	Papilionaceae	Stem, Leaf-bark	Fever, To Relieve Pain of
					Joints
32.	Ficus benghalensis L.	Barged	Moraceae	Leaf, Latex	Rheumatism, Lumbago
33.	Ficus glomerata	Roxb.Bark Gular	Moraceae	Fruit, BarkBark	Diabetes,
24		Ding	Managara	Emil Lange	Dyspepsia
34.	Ficus religiosa L.	Pipa	Moraceae	Fruit, Leaves	Male & Female Fertility, Wounds
35.	Holoptelea integrifolia Roxb.	Chilbil	Ulmaceae	Bark	Hydrocele
36.	Indigofera linnaei	AliLeel	Papilionaceae	Roots	To Cure Mouth Ulcer
37.	Jatropha curcas L.	Ratanjyot	Euphorbiaceae	Seed, Fruit	Dysentery
38.	Jatropha gossypifolia L.	Chandryjyot	Euphorbiaceae	Whole plant	Piles, Burn
39.	Launaea procumbens Roxb.	Bangobhi	Asteraceae	Leaf	Fever
40.	Lawsonia inermis L.	Mehandi	Lythraceae	Leaf	Boils And Burns, Scabies
41.	Linum usitatissimum L.	Alsi	Linaceae	Flower	OilHeart Diseases, Skin Diseases
42.	Luffa cylindrical L.	Ghia torai	Cucurbitaceae	Leaf	Body Swelling
42.	Mangifera indica Linn.	BarkAam	Anacardiaceae	Bark, Seed	
43.	Manggera inaica Linn. Melia azedarach L.	Bakin	Meliaceae	Leaf	Diarrhea Cough Anthelmintic,
45	Morus alba L.	Shahtoot	Moraceae	Leaf	Piles
45.		Kela		Fruit	Dysentery
46.	Musa paradisiaca L.		Musaceae		Dysentery
47. 48.	Nyctanthes arboritis Ocimum basilicum L.	Harsinghar Bantulsi	Oleaceae Lamiaceae	Leaf Stem	Fever Respiratory
40			T 11 4		Problem
49.	Ocimum sanctum L.	Labiatae Tulsi	Labiatae	Leave	Cough
50.	Parthenium hysterophorus L.	Gajarghass	Piperaceae	Flower, Leaf	Cold, Cuts and Wounds
51.	Piper nigrum L.	Kali mirch	Piperaceae	Fruit	Jaundice
52.	Psidium guajava L.	Amrood	Myrtaceae	Fruit	Jaundice, Acidity, Diabetes
53.	Prosopis juliflora	Vilayati babool	Mimosaceae	Bark	Leucorrhoea
54.	Raphanus sativus L.	Mooli	Brassicaceae	Leaf, Root	Acidity
55.	Ricinus communis L.	Arandi	Euphorbiaceae	Oil	Pneumonia, Body Pain
56.	Rosa centifolia L.	Gulab	Rosaceae	Flower	Eye Infection, Syphilis
57.	Saraca asoca(Roxb.)	Ashok	Caesalpiniaceae	Bark	Leucorrhoea, Anthelmintic, Piles
58.	Sida cordifolia L.	Khaente	Malvaceae	Root, Leaf	Dysentery
59.	Solanum indicum L.	Badi Kateri	Solanaceae	Fruit, Root	Bronchitis, Leprosy
60.	Sonchus asper (L.)	Hill Gubbi	Compositae	Leaf	Cuts & Wounds
61.	Syzygium cuminiskeels	Jamun	Myrtaceae	Fruit	Diabetes
62.	Syzygium cuminiskeeis Syzygium heyneanum	DuthieKat-Jamun	Myrtaceae	Bark	Sunstroke
02.	syzygium neyneunum		•		
63.	Tephrosia purpurea Linn.	Sharfunkha	Fabaceae	Leaves, Juice	Amoebic Diarrhoea

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65.	Tinospora cordifolia (Willd)	Gurch	Menispermaceae	Root	Jaundice, Snake Bite	
66.	Tribulus terrestris L.	Chota-Gokhuru	Zygophyllaceae	Root, Fruit	Male Weakness	
67.	Tridax procumbens L.	Ekdandi	Asteraceae	Leaf	Cuts & Wounds	
68.	.Vitex negundo L.	Nirgudi	Verbenaceae	Root	Swellings	
69.	Withania somnifera	DunalAswagandha	Solanaceae	Root	Sex Diseases	
70.	Xanthium strumarium L.	Kuthuru	Asteraceae	Leaf, Seeds	Malaria	
71.	Ziziphus mauritiana Lamk.	Ber	Rhamnaceae	Leaf	Styeof Eye	

Results and Discussion

Plant species belonging to 62 genera and 71 species of families are being used by most of the local people for the treatment of common diseases. The dose is prepared by using juice, leaf, bark extracts and other parts of the plant. From earlier times people made use of plants for their basic needs Medicare and livelihood. Some plants used by people are cultivated while others grow in wild conditions. The tribal depends predominantly on plants for food, clothing, medicine, oil, agricultural implements, art, crafts, and huts for other requirements. Plant species were also used to prevent abortion, achieve easy delivery, eye, gastric, respiratory problems, fever, antidote for snake and scorpion bites, sunstroke, arthritis, hydrocele, toothache, cough, dysentery, jaundice and sexual power.

Conclusion

The majority of plant species belong to families Mimosaceae, Liliaceae, Papaveraceae, Brassicaceae, Apocynaceae, Poaceae, Asteraceae, Euphorbiaceae, Papilionaceae and Myrtaceae. Among these 68 plant species belong to Dicot and 03 to Monocots. Out of which 43.66% are tree, 22.54% shrubs, 29.58% herbs and 2.47% creepers. The percentage of plant parts used is as follows - Fruit = 22.54%, Leaves = 45.075%, Root = 12.68%, Bark = 11.27%, Seed = 8.45%, Stem = 8.45%, Whole plant = 4.23%, Flowers = 4.23%, Bud = 1.41%, juice = 5.63%, Latex = 2.82%, Oil = 2.82%. The percentage study adds to the earlier knowledge regarding the use of plants in the treatment of common diseases.

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